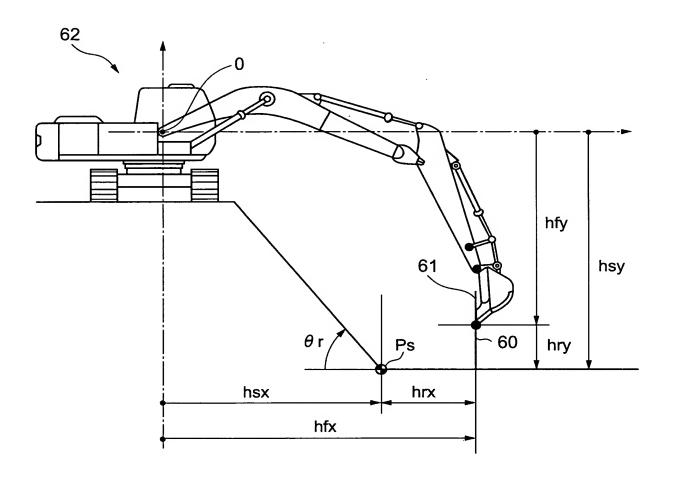


FIG. 2 PRIOR ART

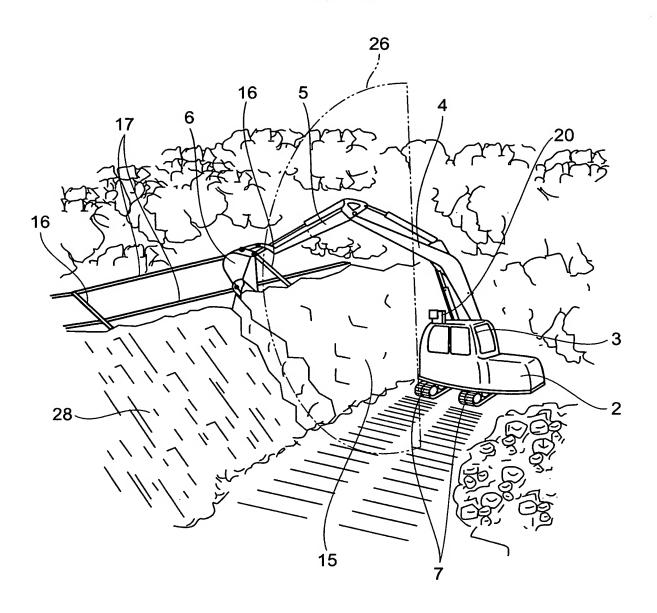


60 EXTERNAL REFERENCE

61 FRONT REFERENCE

62 VEHICLE BODY

FIG. 3



- 2 UPPER ROTATING BODY
- 3 OPERATOR'S CABIN
- 5 ARM
- 6 BUCKET
- 7 LOWER TRAVELING BODY
- **15 CONSTRUCTION SURFACE**
- 16 STAKE
- 17 CORD
- 20 DISTANCE MEASUREMENT DEVICE
- **26 SCANNING REGION**

FIG. 4

30 CONSTRUCTION TARGET INDICATOR DEVICE

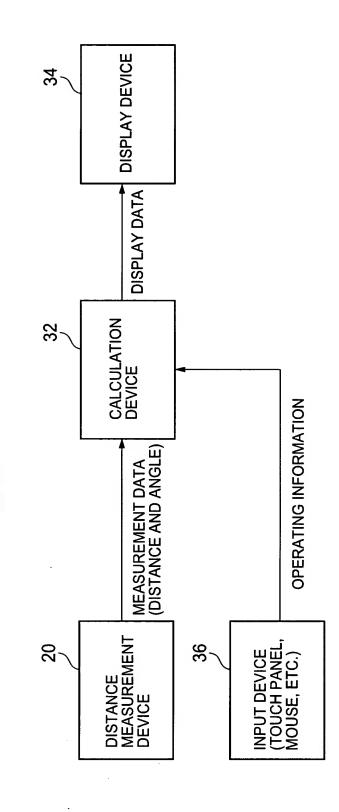
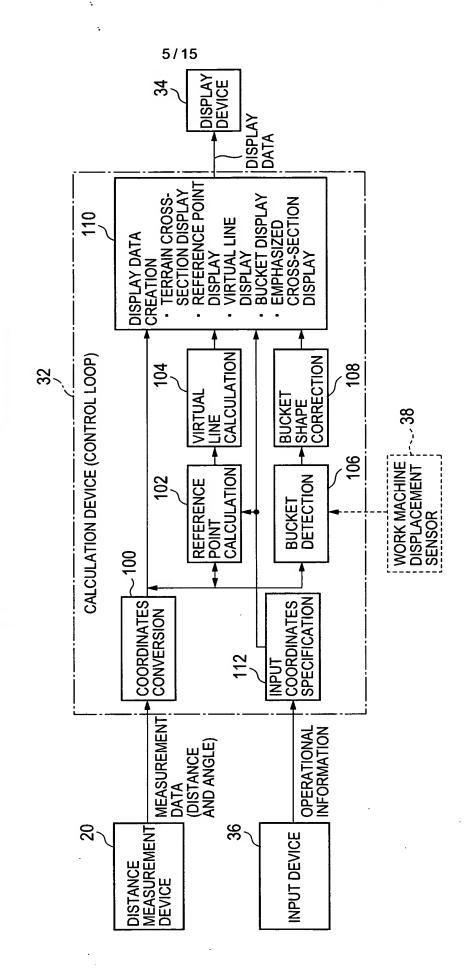
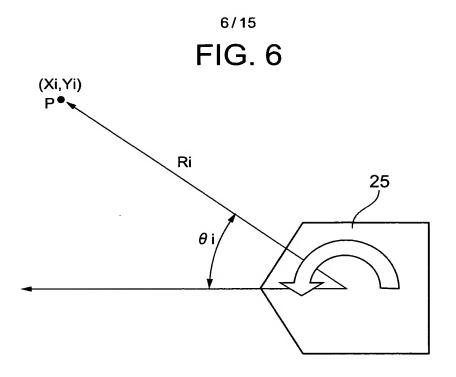


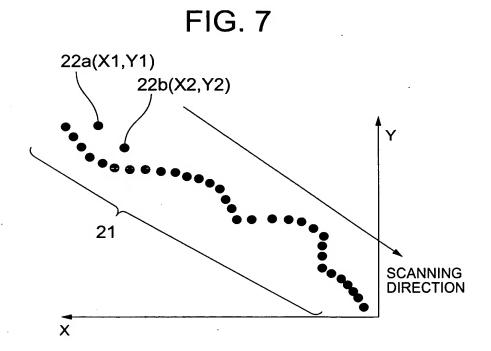
FIG. 5

30 CONSTRUCTION TARGET INDICATOR DEVICE



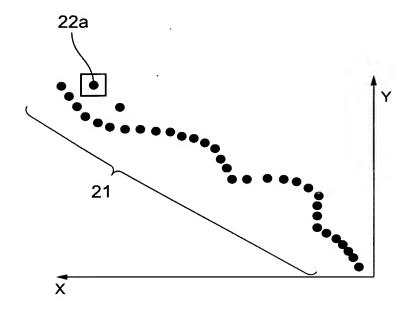


25 LASER DISTANCE MEASUREMENT DEVICE



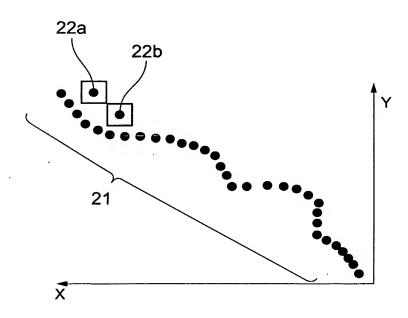
21 POSITION DATA OF CROSS-SECTION OF TERRAIN 22a, 22b REFERENCE MARKER (CORD)

7/15 FIG. 8



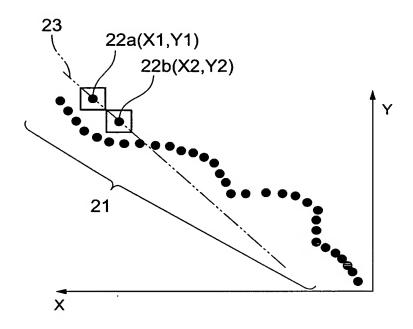
21 POSITION DATA OF CROSS-SECTION OF TERRAIN 22a REFERENCE POINT

FIG. 9



21 POSITION DATA OF CROSS-SECTION OF TERRAIN 22a, 22b REFERENCE POINT

FIG. 10



21 POSITION DATA OF CROSS-SECTION OF TERRAIN 22a, 22b REFERENCE POINT · 23 VIRTUAL LINE

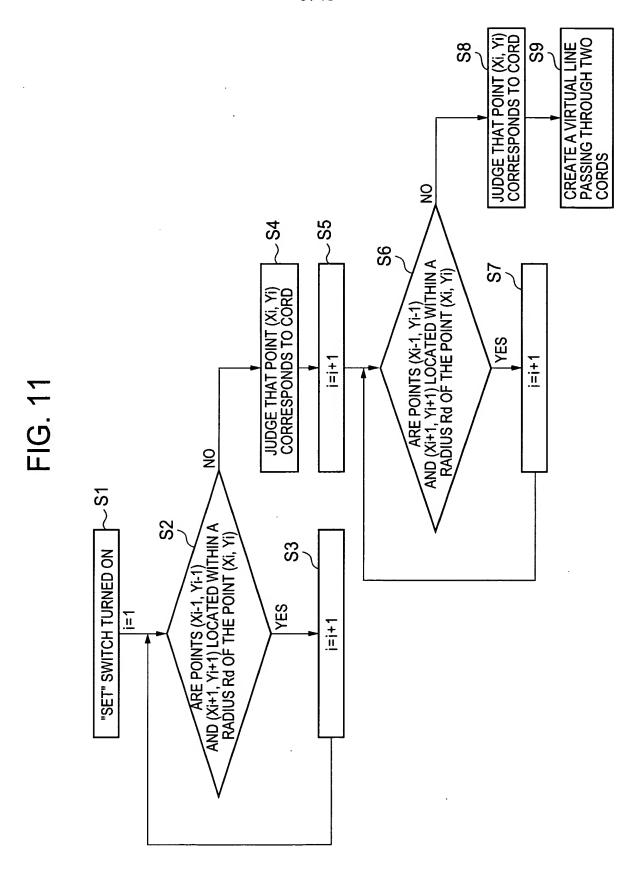


FIG. 12

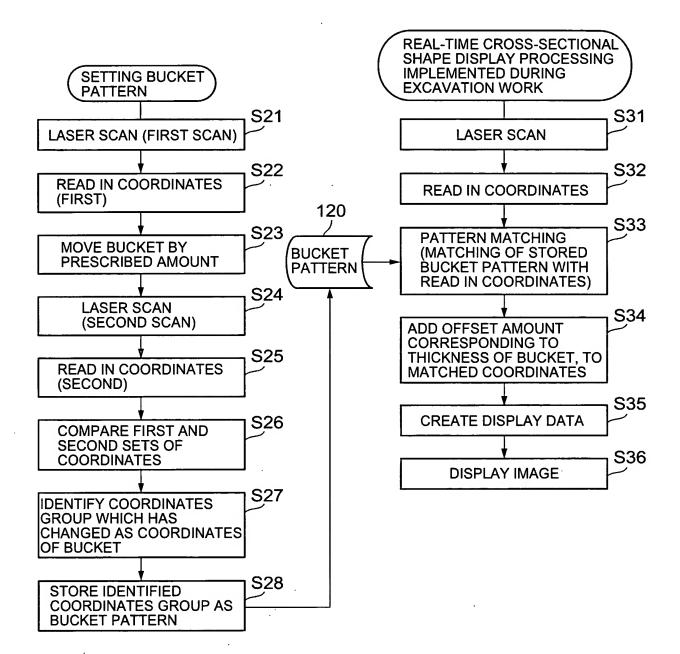


FIG. 13

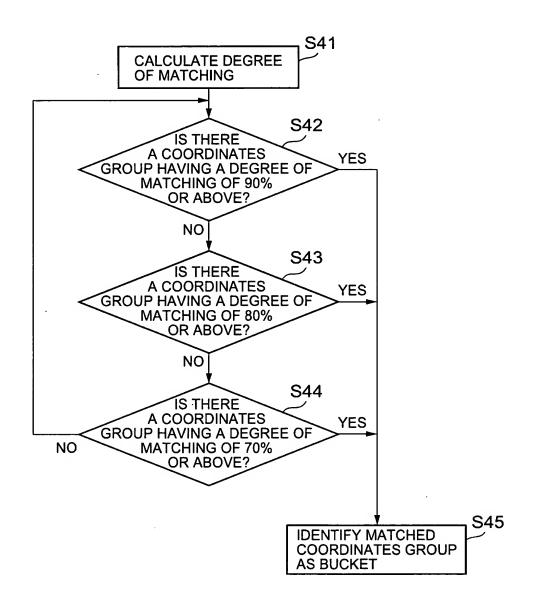
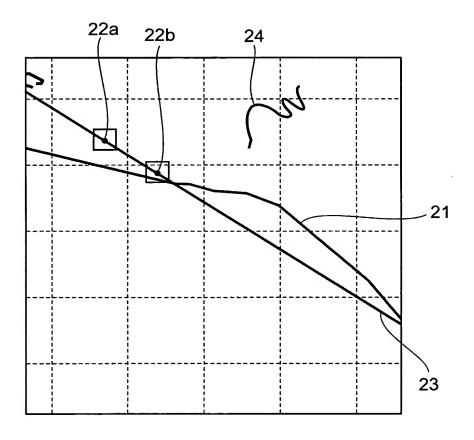


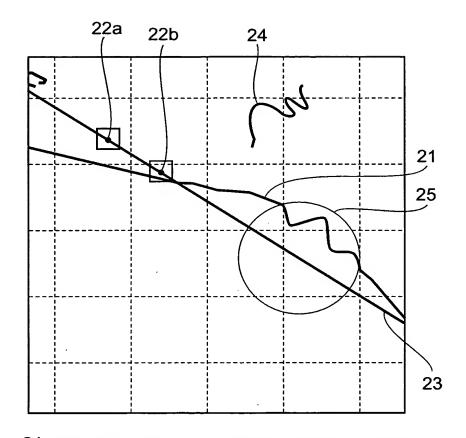
FIG. 14



21 POSITIONAL DATA OF CROSS-SECTION OF TERRAIN 22a, 22b REFERENCE POINT 23 VIRTUAL LINE 24 POSITIONAL DATA OF CROSS-SECTION OF BUCKET

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FIG. 15



21 POSITIONAL DATA OF CROSS-SECTION OF TERRAIN 22a, 22b REFERENCE POINT 23 VIRTUAL LINE

24 POSITIONAL DATA OF CROSS-SECTION OF BUCKET

25 ENLARGED DISPLAY REGION

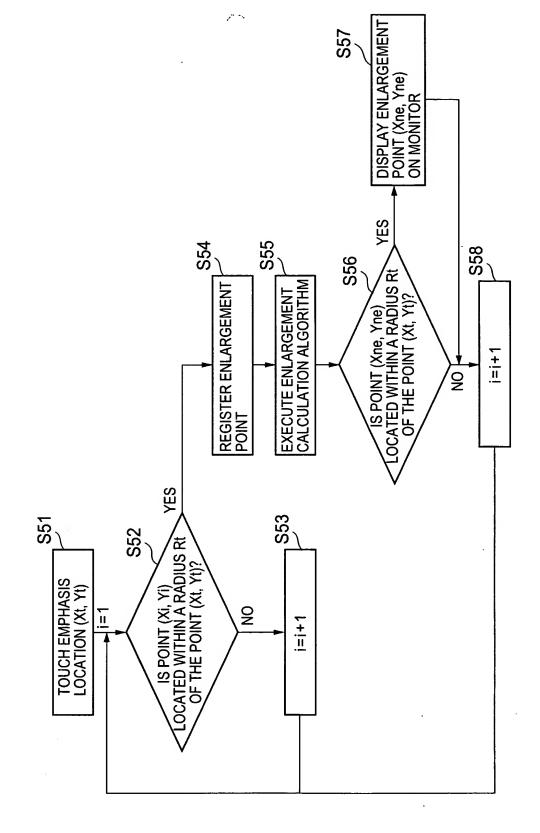
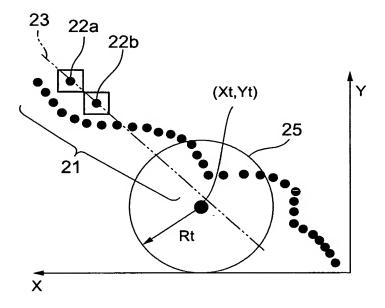


FIG. 16

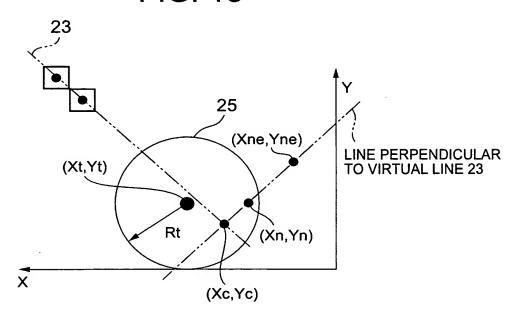
15/15

FIG. 17



21 POSITIONAL DATA OF CROSS-SECTION OF TERRAIN 22a, 22b REFERENCE POINT 23 VIRTUAL LINE

FIG. 18



23 VIRTUAL LINE